ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version

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Title of Invention	SIMULTANEOUS MULTI-BEAM PLANAR ARRAY IR (PAIR) SPECTROSCOPY

Application Number :

Confirmation Number:

First Named Applicant: Douglas Elmore

Attorney Docket Number: 11657-00004-US

Art Unit: N/A

Examiner: Not Yet Assigned

Search string: (4678332 or 0028036 or 3880523 or 4956555 or 5157258 or 5444236 or 5519219 or 5377003 or 6483112 or 5528368 or 6031233 or 6236508 or 5539518 or 5491344 or 5371358 or 5828450 or 6355930).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
CH	AA	4678332	1987-07-07	Rock, et al.			
	~~AB~~	~~0028036~~	~~2001-10-11~~	~~Thundat, et al.~~	~~A1~~		
CH	AC	3880523	1975-04-29	Thomas			
CH	AD	4956555	1990-09-11	Woodberry			
CH	AE	5157258	1992-10-20	Gunning, III et al.			
CH	AF	5444236	1995-08-22	Ludington et al.			
CH	AG	5519219	1996-05-21	Alexay et al.			
CH	AH	5377003	1994-12-27	Lewis et al.			
CH	AI	6483112	2002-11-19	Lewis	B1		
CH	AJ	5528368	1996-06-18	Lewis et al.			
CH	AK	6031233	2000-02-29	Levin et al.			
CH	AL	6236508	2001-05-22	Stapelbroek	B1		
CH	AM	5539518	1996-07-23	Bennett			
CH	AN	5491344	1996-02-13	Kenny et al.			
CH	AO	5371358	1994-12-06	Chang et al.			
CH	AP	5828450	1998-10-27	Dou et al.			
CH	AQ	6355930	2002-03-12	Sivathanu et al.	B1		

Signature

Examiner Name	Date
CONSTANTINE HANNAHER	SEP 28 2004

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known	
Application Number	10/708,927-Conf. #2928
Filing Date	April 1, 2004
First Named Inventor	Douglas L. Elmore
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	11657-00004-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

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Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
CH	CA	R.G. Snyder, S.L. Hsu, and S. Krimm, Vibrational Spectra in the C-H Stretching Region and the Structure of the Polymethylene Chain, Spectrochimica Acta.Vol. 34A, pp. 395-406, 1978.	

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Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	11857-00004-US

U.S. PATENT DOCUMENTS

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CH	BA	DE-29 38 844-A1	04-23-1981	Schaumburg		

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CH	CA	CVI Product Template 5 for SM301 PbS Array Spectrometer, www.cvilaser.com/spectral/am301-929.asp?pcid=349 (downloaded and printed from WWW on 9/24/01).	
CH	CB	M. Stelzle, J. Tuchtenhagen, J.F.Raboit; Novel All-Fibre Optic Fourier Transform Spectrometer with Thermally Scanned Interferometer, Microchim. Acta [Suppl.] Vol. 14, pp. 785-787, 1997.	
CH	CC	Yamamoto, Kiyoshi; Ishida, Hatsuo: Interpretation of Reflection and Transmission Spectra for Thin Films: Reflection, Applied Spectroscopy, Vol. 48, No. 7, 1994, p. 775-787.	
CH	CD	Yamamoto, Kiyoshi; Ishida, Hatsuo: Optical theory applied to infrared spectroscopy, Vibrational Spectroscopy, 8 (1994), p. 1-36.	
CH	CE	Gericke, Arne; Michailov, Alexander V; Huhnerfuss, Heinrich: Polarized external infrared reflection-absorption spectrometry at the air/water interface: comparison of experimental and theoretical results for different angles of incidence, Vibrational Spectroscopy, 4 (1993), p. 335-348.	
CH	CF	Mendelsohn, Richard; Brauner, Joseph W.; Gericke, Arne: External infrared reflection absorption spectrometry of monolayer films at the air-water interface, Annu.Rec. Phys Chem 1995, 46, p. 305-333	
CH	CG	Grandbois, Michel; Desbat, Bernard; Salesse, Christian: Monitoring of phospholipids monolayer hydrolysis by phospholipase A2 by use of polarization-modulated Fourier transform infrared spectroscopy, Biophysical Chemistry, 88 (2000), p. 127-135.	
CH	CH	Grandbois, Michel; Desbat, Bernard; Blaudez, Daniel; Salesse, Christian: Polarization-Modulated Infrared Reflection Absorption Spectroscopy Measurement of Phospholipid Monolayer Hydrolysis by Phospholipase C, Langmuir, Vol. 15, No. 19, 1999, p. 6594-6597,	
CH	CI	Flach, Carol R.; Brauner, Joseph W.; Mendelsohn, Richard: Calcium Ion Interactions with Insoluble Phospholipid Monolayer Films at the A/W Interface, External Reflection-Absorption IR Studies, Biophysical Journal, Vol. 65, November 1993, p. 1994-2001.	
CH	CJ	Mitchell, Melody L.; Dluhy, Richard A.: In Situ FT-IR Investigation of Phospholipid Monolayer Phase Transitions at the Air-Water Interface, Journal of the American Chemical Society, 1988, 110, p. 712-718.	
CH	CK	Dluhy, Richard A.; Reilly, Kim E.; Hunt, Rodney D.; Mitchell, Melody L.; Mautone, Alan J.;	

Examiner Signature	CONSTANTINE HANNAHER	Date Considered	SEP 28 2004

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Filing Date	April 1, 2004
First Named Inventor	Douglas L. Elmore
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	11657-00004-US

See sheet		Mendelsohn, Richard: Infrared spectroscopic investigations of pulmonary surfactant Surface film transitions at the air-water interface and bulk phase thermotropism, Biophysical Journal, Vol. 56, December 1989, p. 1173-1181.	
CH	CL	Dluhy, Richard A: Quantitative External Reflection Infrared Spectroscopic Analysis of Insoluble Monolayers Spread at the Air-Water Infrared, The Journal of Physical Chemistry, Vol. 90, No. 7, 1986, p 1373-1379.	
CH	CM	Rabolt, J.F.; Burns, F.C.; Schlotter, N.W.; Swalen, J.D.: Molecular orientation in this monolayer films by infrared spectroscopy, Journal of Electron Spectroscopy and Related Phenomena, 30 (1983) p. 29-34.	
CH	CN	Flach, Carol R.; Gericke, Arne; Mendelsohn, Richard: Quantitative Determination of Molecular Chain Tilt Angles in Monolayer Fims at the Air/Water Interface: Infrared Reflection/Absorption Spectroscopy of Behenic Acid Methyl Ester, J. Phys. Chem. B., Vol. 101, No. 1, 1997, p. 58-65.	
CH	CO	Hunt, Rodney D.; Mitchell, Melody L.; Dluhy, Richard A.: The Interfacial Structure of Phospholipid Monolayer Films: and Infrared Reflectance Study, Journal of Molecular Structure, 214 (1989), p. 93-109.	
CH	CP	Gericke, Arne; Mendelsohn, Richard: Partial Chain Deuteration as an IRRAS Probe of Conformational Order of Different Regions in Hexadacanoic Acid Monolayers at the Air/Water Interface, Langmuir, 1996, 12, p. 758-762.	
CH	CQ	Gericke, Arne; Flach, Carol R.; Mendelsohn, Richard: Structure and Orientation of Lung Surfactant SP-C and L-a-Dipalmitoylphosphatidylcholine in Aqueous Monolayers, Biophysical Journal, Vol. 73, July 1997, p. 492-499.	
	CR	Baszkin, Adam; Norde, Willem: Physical Chemistry of Biological Interfaces, Infrared Spectroscopy, p.715-747.	
CH	CS	Knobler, Charles M.; Desai, Rashmi C.: Phase Transitions in Monolayers, Amu. Rec. Phys. Chem. 1992, 43, p. 208-236.	
CH	CT	Blaudez, Daniel; Buffeteau, Thierry; Desbat, Bernard; Turlet, Jean Marie: Infrared and Ramam spectroscopies of monolayers at the air-water interface, Colloid & Interface Science, 4 (1999), p.265-272.	
CH	CU	Flach, Carol R.; Gericke, Arne; Mendelsohn, Richard: Quantitative Determination of Molecular Chain Tilt Angles in Monolayer Films at the Air/Water Interfaces: Infrared Reflection/Absorption Spectroscopy of Behenic Acid Methyl Ester, J. Phys. Chem. B, 1997, 101, p.58-65.	
CH	CV	Buffeteau, T.; Blaudez, D.; Pere, E.; Desbat, B.; Optical Constant Determination in the Infrared of Uniaxially Oriented Monolayers from Transmittance and Reflectance Measurements, J. Phys. Chem B., 1999, 103, p. 5020-5027.	
CH	CW	Buffeteau, T.; Le Calvez, E.; Castano, S.; Desbat, B.; Blaudez, D.; Dufourcq, J.: Anisotropic Optical Constants of a-Helix and β-Sheet Secondary Structures in the Infrared, American Chemical Society, p. 1-6. Washington DC February 2000	
CH	CX	Dicko, Awa; Bourque, Helene; Pezolet, Michel: Study by infrared spectroscopy of the conformation of dipalmitoylphosphatidylglycerol monolayers at the air-water interface and transferred on solid substrates, Chemistry and Physics of Lipids, 96 (1998), p. 125-139.	
CH	CY	Flach, Carol R.; Gericke, Arne; Keough, Kevin M.W.; Mendelsohn, Richard: Palmitoylation of lung surfactant protein SP-C alters surface thermodynamics, but not protein secondary structure or orientation in 1, 2-dipalmitoylphosphatidylcholine Langmuir films, Biochimica et Biophysica Acta 1416 (1999), p. 11-20.	
CH	CZ	Flach, Carol R.; Xu, Zhi; Xiaohong, Bi; Brauner, Joseph W.; Mendelsohn, Richard: Improved IRRAS Apparatus for Studies of Aqueous Monolayer Films: Determination of the Orientation of Each Chain in a Fatty-Acid Homogeneous Ceramide 2, Applied Spectroscopy, Vol. 55, No. 8, 2001, p. 1060-1068.	
CH	CA1	Blaudez, D.; Boucher, F.; Buffeteau, T.; Desbat, B.; Grandbois, M.; Salesse, C.: Anisotropic	

Examiner Signature	CONSTANTINE HANNAHER	Date Considered	SEP 28 2004

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Filing Date	April 1, 2004
First Named Inventor	Douglas L. Elmore
Art Unit	N/A
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Attorney Docket Number	11657-00004-US

see sheet 2		Optical Constants of Bacteriorhodopsin in the Mid-Infrared: Consequence on the Determination of a-Helix Orientation, Applied Spectroscopy, Vol. 53, No. 10, 1999, p. 1299-1304.	
CH	CB1	Sahai, H.; Umemura, J.: Molecular Orientation in Langmuir Films of 12-Hydroxystearic Acid Studied by Infrared External-Reflection Spectroscopy, Langmuir, 1988, 14, p. 6249-6255.	
	CC1	Grandbois, Michel; Desbat, Bernard; Salesse, Christian: Monitoring of phospholipids monolayer hydrolysis by phospholipase A2 by use of polarization-modulated Fourier transform infrared spectroscopy, Biophysical Chemistry, 88 (2000), p. 127-135.	CG
	CD1	Grandbois, Michel; Desbat, Bernard; Blaudez, Daniel; Salesse, Christian: Polarization-Modulated Infrared Reflection Absorption Spectroscopy Measurement of Phospholipid Monolayer Hydrolysis by Phospholipase C, Langmuir, 1999, 15, p. 6594-6597.	CH
CH	CE1	S.M. Alawi, T. Krug, H.H.Richardson; Characterization and Application fo an Infrared Linear Array Spectrometer for Time-resolved Infrared Spectroscopy, Applied Spectroscopy, Vol. 47, No. 10, 1993, pp. 1626-1630.	
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CH	CG1	J. Zhao, R.L. McCreery, Multichannel Gourier Transform Raman Spectroscopy: Combining the Advantages of CCDs with Interferometry, Applied Spectroscopy, Vol. 50, No. 9, 1996, pp. 1209-1214.	
CH	CH1	P. Hamm, S. Wiemann, M. Zurek, W. Zinth, Highly Sensitive Multichannel Spectrometer for Subpicosecond Spectroscopy in the Mid Infrared, Institut fur Medizinische Optik, Optics Letters, Vol. 19., No. 20, pp. 1042-1044, 1994. April	
	CI1	D.L. Elmore, Mei-Wei Tsao, S. Frisk, D.B. Chase, J.F. Rabolt, Design and Performance of a Planar Array Infrared Spectrograph that Operates in the 3400 to 2000 cm-1 Region, Applied Spectroscopy, Vol. 56, No. 2, 2002.	!
	CJ1	Yamamoto, Kiyoshi; Ishida, Hatsuo, Interpretation of Reflection and Transmission Spectra for Thin Films: Reflection, Applied Spectroscopy, Vol. 48, No. 7, 1994, pp. 775-787.	CC
	CK1	Yamamoto, Kiyoshi; Ishida, Hatsuo: Optical Theory Applied to Infrared Spectroscopy, Vibrational Spectroscopy, 8 (1994), pp. 1-36. pp. 1-36.	CD
	CL1	Gericke, Arne; Michailov, Alexander.V; Huhnerfusa, Heinrich: Polarized external infrared reflection-absorption spectrometry at the air/water interface: comparison of experimental and theoretical results for different angles of incidence, Vibrational Spectroscopy, 4 (1993), pp. 335-348.	CE
	CM1	Mendelsohn, Richard; Brauner, Joseph W.; Gericke, Arne: External infrared reflection absorption spectrometry of monolayer films at the air-water interface, Annu. Rec. Phys Chem 1995, 46, pp. 305-333.	CF
	CN1	Grandbois, Michel; Desbat, Bernard; Salesse, Christian: Monitoring of phospholipids monolayer hydrolysis by phospholipase A2 by use of polarization-modulated Fourier transform infrared spectroscopy. Biophysical Chemist, 88 (2000), pp.127-135.	CG
	CO1	Grandbois, Michel; Desbat, Bernard; Blaudez, Daniel; Salesse, Christian: Polarization-Modulated Infrared Reflection Absorption Spectroscopy Measurement of Phospholipid Monolayer Hydrolysis by Phospholipase C, Langmuir, Vol. 15, No. 19, 1999, pp. 6594-6597.	CH
	CP1	Flach, Carol R.; Brauner, Joseph W.; Mendelsohn, Richard: Calcium Ion Interactions with Insoluble Phospholipid Monolayer Films at the A/W Interface, External Reflection-Absorption IR Studies, Biophysical Journal, Vol. 65, November 1993, pp. 1994-2001.	CI
	CQ1	Mitchell, Melody L.; Dluhy, Richard A.: In Situ FT-1R Investigation of Phospholipid Monolayer Phase Transitions of the Air-Water Interface, Journal of the American Chemical Society, 1988, 110, pp. 712-718.	CJ
	CR1	Dluhy, Richard A.; Reilly, Kim E.; Hunt, Rodney D.; Mitchell, Melody L.; Mautone, Alan J.; Mendelsohn, Richard: Infrared spectroscopic investigations of pulmonary surfactant Surface film transitions at the air-water interface and bulk phase thermotropism, Biophysical Journal,	CK

Examiner Signature	CONSTANTINE HANNAHER	Date Considered	SEP 28 2004

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Sheet 4 of 5

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		Vol. 56, December 1989, pp. 1173-1181.	
	CS1	Dluhy, Richard A: Quantitative External Reflection Infrared Spectroscopic Analysis of Insoluble Monolayers Spread at the Air-Water Infrared, The Journal of Physical Chemistry, Vol. 90, No. 7, 1986, pp.1373-1379.	CL
	CT1	Rabolt, J.F.; Burns, F.C.; Schlotter, N.W.; Swalen, J.D.: Molecular orientation in thin monolayer films by infrared spectroscopy, Journal of Electron Spectroscopy and Related Phenomena, 30 (1983), p. 29-34.	CM
	CU1	Flach, Carol R.; Gericke, Arne; Mendelsohn, Richard: Quantitative Determination of Molecular Chain Tilt Angles in Monolayer Films at the Air/Water Interface: Infrared Reflection/Absorption Spectroscopy of Behenic Acid Methyl Ester, J. Phys. Chem. B., Vol. 101, No. 1, 1997, p. 58-65.	CN
	CV1	Hunt, Rodney D.; Mitchell, Melody L.; Dluhy, Richard A.: The Interfacial Structure of Phospholipid Monolayer Films: and Infrared Reflectance Study, Journal of Molecular Structure, 214 (1989), pp. 83-109.	CO
	CW1	Gericke, Arne; Mendelsohn, Richard: Partial Chain Deuteration as an IRRAS Probe of Conformational Order of Different Regions in Hexadacanoic Acid Monolayers at the Air/Water Interface, Langmuir, 1998, 12, pp. 758-762.	CP
	CX1	Gericke, Arne; Flach, Carol R.; Mendelsohn, Richard: Structure and Orientation of Lung Surfactant SP-C and L-a-Dipalmitoylphosphatidylcholine in Aqueous Monolayers, Biophysical Journal, Vol. 73, July1997, pp. 492-499.	CQ
	CY1	Baszkin, Adam; Norde, Willem: Physical Chemistry of Biological Interfaces, Infrared Spectroscopy, pp. 715-747.	CR
	CZ1	Knobler, Charles M.; Desai, Rashmi C.: Phase Transitions in Monolayers, Amu. Rec. Phys. Chem. 1992, 43, pp. 208-236.	CS
	CA2	Blaudez, Daniel; Buffeteau, Thierry; Desbat, Bernard; Turlet, Jean Marie: Infrared and Raman Spectroscopies of monolayers at the air-water interface, Colloid & Interface Science, 4 (1999), pp. 265-272.	CT
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	CC2	Buffeteau, T.; Le Calvez, E.; Castano, S.; Desbat, B.; Blaudez, D.; Dufourcq, J.: Anisotropic Optical Constants of a-Helix and,6-Sheet Secondary Structures in the Infrared, American Chemical Society, pp. 1-6.	CW
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	CE2	Flach, Carol R.; Gericke, Arne; Keough, Kevin M.W.; Mendelsohn, Richard: Palmitoylation of lung surfactant protein SP-C alters surface thermodynamics, but not protein secondary structure or orientation in 1, 2-dipalmitoylphosphatidylcholine Langmuir films. Biochimica et Biophysica Acta 1416 (1999), pp. 11-20.	CY
	CF2	Flach, Carol R.; Xu, Zhi; Xiaohong, Bi; Brauner, Joseph W.; Mendelsohn, Richard: Improved IRRAS Apparatus for Studies of Aqueous Monolayer Films: Determination of the Orientation of Each Chain in a Fatty-Acid Homogeneous Ceramide 2, Applied Spectroscopy, Vol. 55, No. 8, 2001, pp. 1060-1066.	CZ
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	CH2	Sahai, H.; Umemura, J.: Molecular Orientation in Langmuir Films of 12-Hydroxystearic Acid Studied by Infrared External-Reflection Spectroscopy, Langmuir, 1998, 14, pp. 6249-6255.	CB1
	CI2	Grandbois, Michel; Desbat, Bernard; Salesse, Christian: Monitoring of phospholipids	CC1

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		monolayer hydrolysis by phospholipase A2 by use of polarization-modulated Fourier transform infrared spectroscopy, Biophysical Chemist, 88 (2000), pp. 127-135.	
	CJ2	Grandbois, Michel; Desbat, Bernard; Blaudez, Daniel; Salesse, Christian: Polarization-Modulated Infrared Reflection Absorption Spectroscopy Measurement of Phospholipid Monolayer Hydrolysis by Phospholipase C, Langmuir, 1999, 15, pp. 6594-6597.	CDI

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